

SRT411assignment0

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3.1 ToDo

```
(2017-2014)/(2014-1985)*100
```

```
## [1] 10.34483
```

3.2 TODO

```
Cur_Year = 2017  
My_Birth = 1985  
(Cur_Year - 2014)/(2014 - My_Birth)*100
```

```
## [1] 10.34483
```

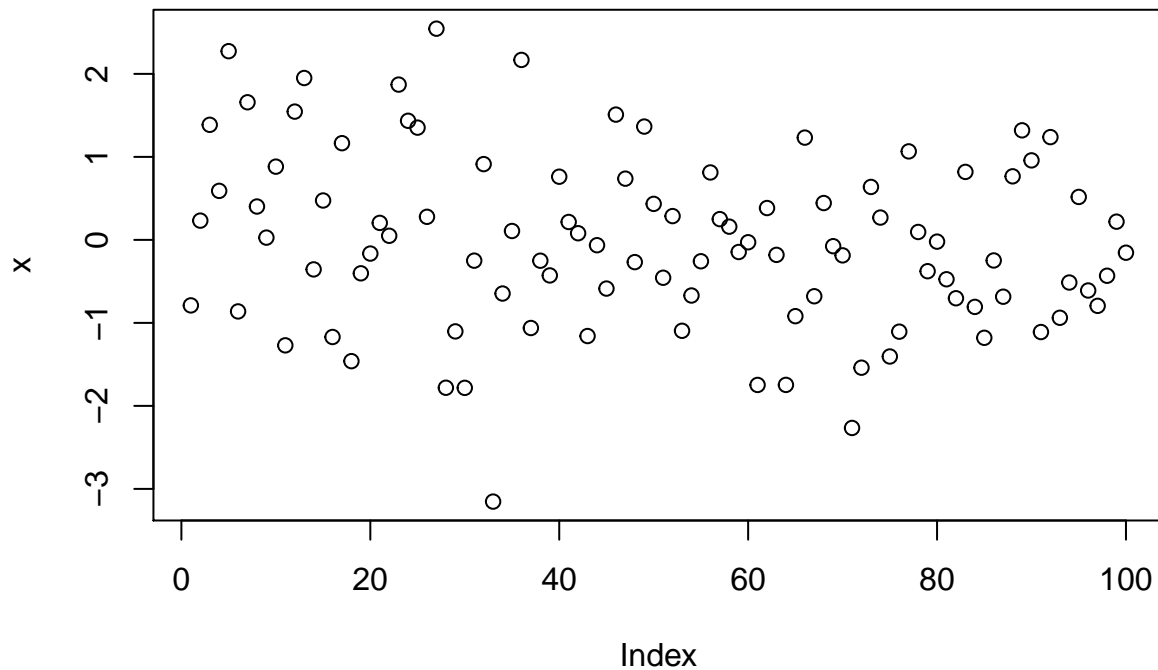
3.4 TODO

```
a=c(4,5,8,11)  
sum(x=a)
```

```
## [1] 28
```

3.5 TODO

```
x = rnorm(100)  
plot(x)
```



#4.0

TODO

```
help(sqrt)
```

6.0 TODO

```
P = seq(31,60)
Q = matrix(data=P, ncol=5,nrow=6)
P
```

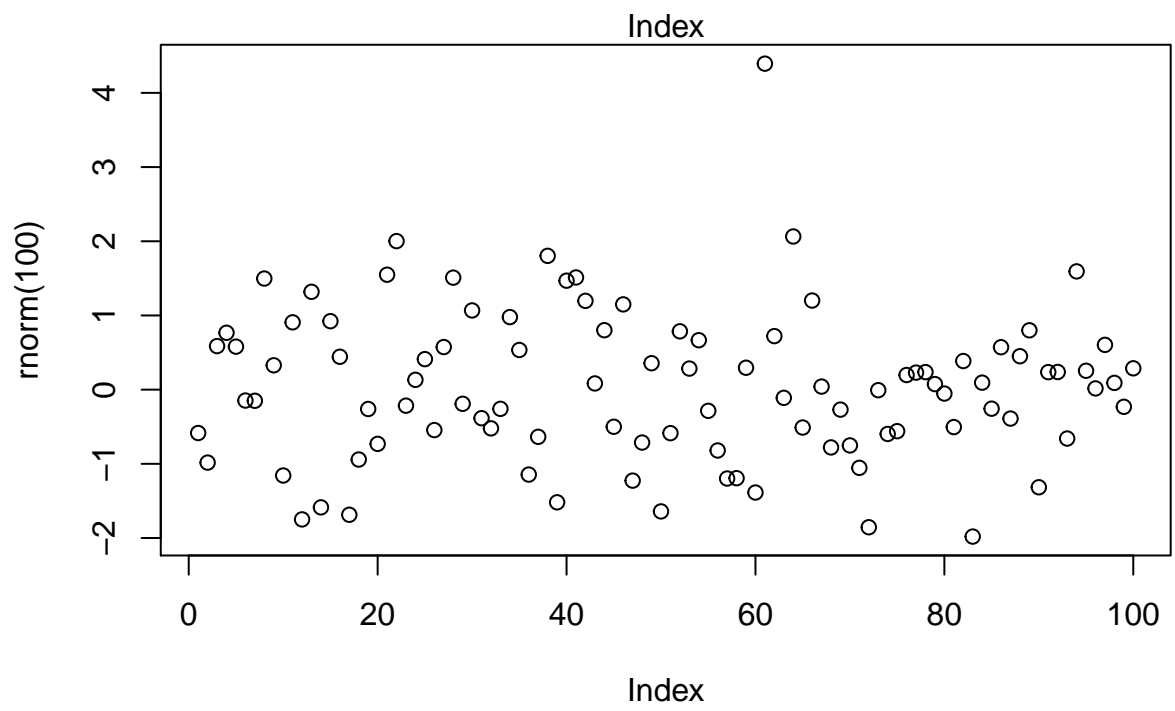
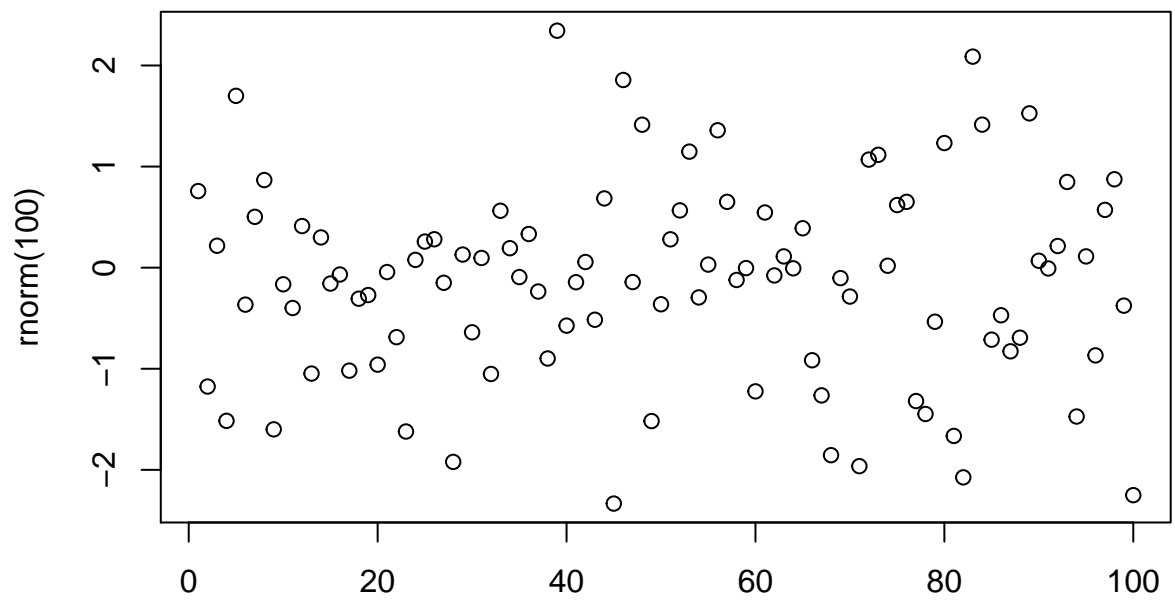
```
## [1] 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53
## [24] 54 55 56 57 58 59 60
```

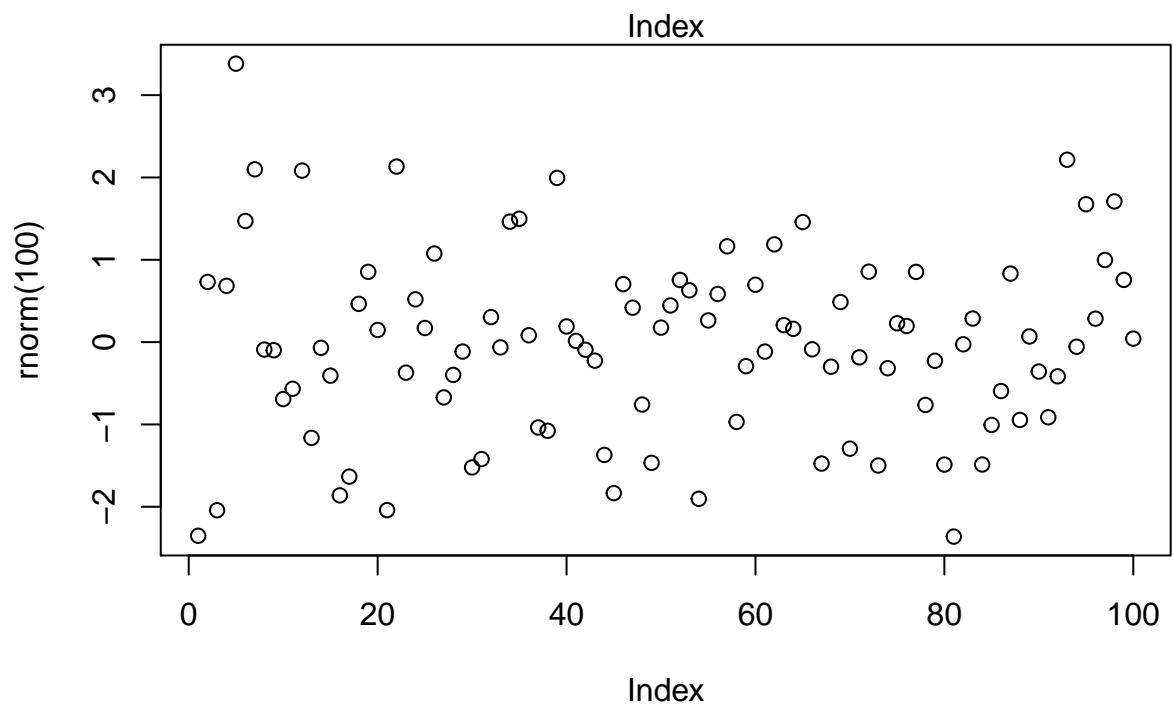
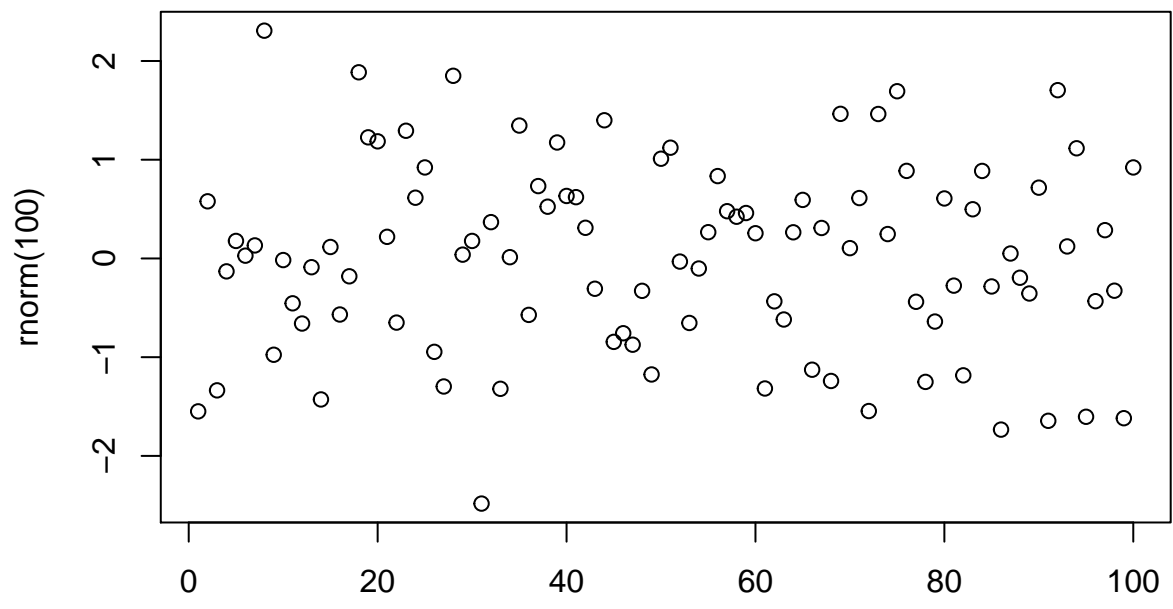
```
Q
```

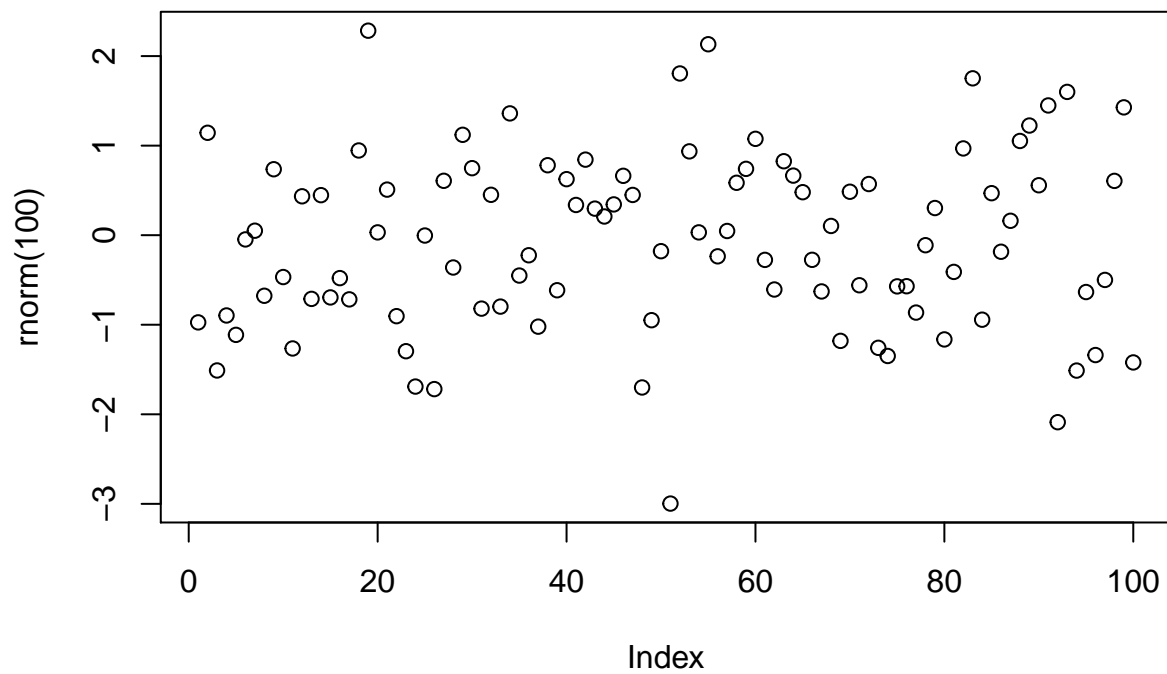
```
##      [,1] [,2] [,3] [,4] [,5]
## [1,]  31  37  43  49  55
## [2,]  32  38  44  50  56
## [3,]  33  39  45  51  57
## [4,]  34  40  46  52  58
## [5,]  35  41  47  53  59
## [6,]  36  42  48  54  60
```

5.0 TODO

```
earrings = 1
while (earrings < 6) {
  plot(rnorm(100))
  earrings = earrings+1
}
```

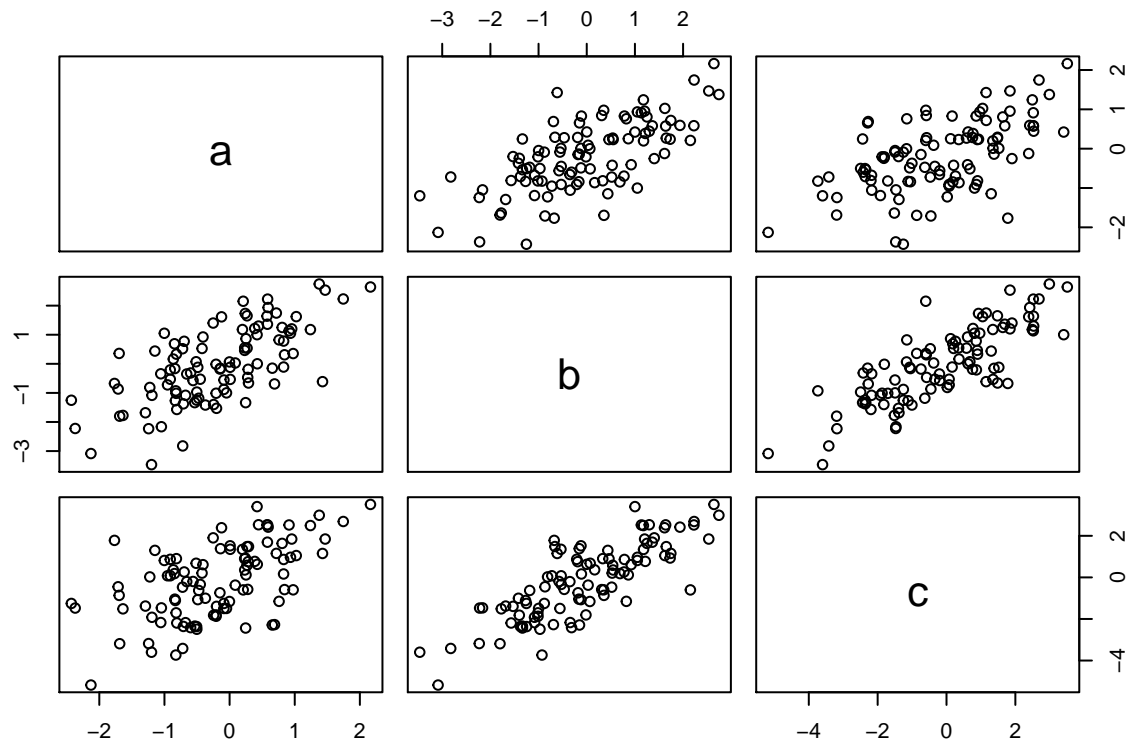






6.3 TODO

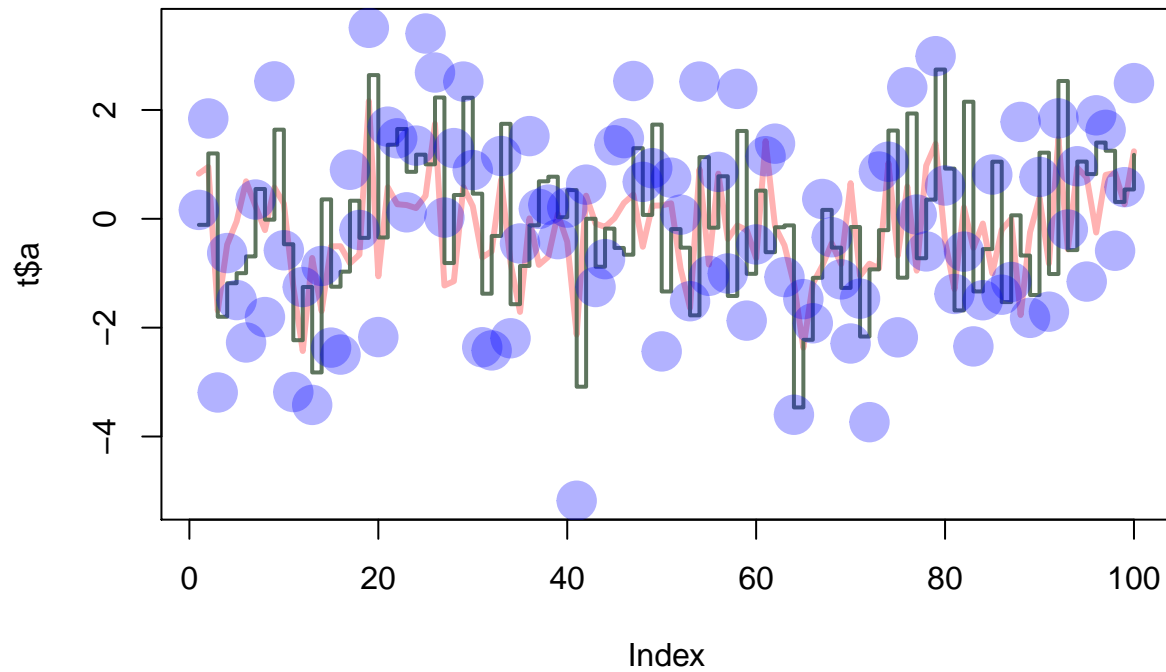
```
x1 =c(rnorm(100))  
x2 = c(rnorm(100))  
x3 = c(rnorm(100))  
t = data.frame(a=x1,b=x1+x2,c=x1+x2+x3 )  
plot(t)
```



#7.0

TODO

```
plot(t$a, type="l", ylim=range(t),lwd=3, col=rgb(1,0,0,0.3))
lines(t$b, type="s", lwd=2,col=rgb(0.3,0.4,0.3,0.9))
points(t$c, pch=20, cex=4,col=rgb(0,0,1,0.3))
```



8.0 TODO

```
D8= read.table(file = "/home/juan/SRT411/SRT411-Assignment-0/tst1.txt", header =TRUE)
write.table(D8$g*5, file= "/home/juan/SRT411/SRT411-Assignment-0/tst1.txt",row.names=FALSE)
D8

## [1] x
## <0 rows> (or 0-length row.names)
```

9.0 TODO

```
##V9=c(rnorm(100), na.rm=TRUE)
V9=c(runif(n=100, min=0, max=100))
V9

## [1] 69.498382 42.555064 40.915711 53.200105 5.576846 19.052001 94.695603
## [8] 29.382163 86.654144 90.885356 22.171139 64.873440 95.884549 17.584901
## [15] 97.616088 80.312013 82.227956 20.221108 23.509695 78.688794 72.121814
## [22] 35.790422 46.052878 63.282510 22.764041 26.420974 50.025745 29.647023
## [29] 51.204345 20.088051 53.008795 40.341983 34.291871 65.824103 39.398901
## [36] 37.138553 87.407441 70.465096 68.702661 86.084486 47.220642 26.467933
## [43] 81.746501 89.383043 91.348314 5.332055 85.611175 49.888358 42.083699
## [50] 53.052066 92.910777 79.226330 46.874697 59.147814 51.483514 77.709569
## [57] 25.641302 17.122960 80.043665 99.398958 20.947593 15.201515 66.604330
## [64] 63.442050 28.383695 9.386530 95.198211 78.151489 88.133346 57.755344
## [71] 93.790431 52.164395 89.181892 84.574369 13.333167 27.129167 29.465206
## [78] 83.127133 76.689703 70.721885 64.043672 49.250960 74.118320 82.644785
## [85] 85.341962 86.953465 85.262194 10.982652 38.367637 41.329855 7.865418
## [92] 75.179949 36.325054 63.701272 18.884769 40.801568 14.851324 68.726958
## [99] 87.552956 16.472363

j=c(1,2,NA)
max(j)

## [1] NA
max(j,na.rm = TRUE)

## [1] 2
max(V9, na.rm=TRUE)

## [1] 99.39896
mean(sqrt(V9), na.rm = TRUE)

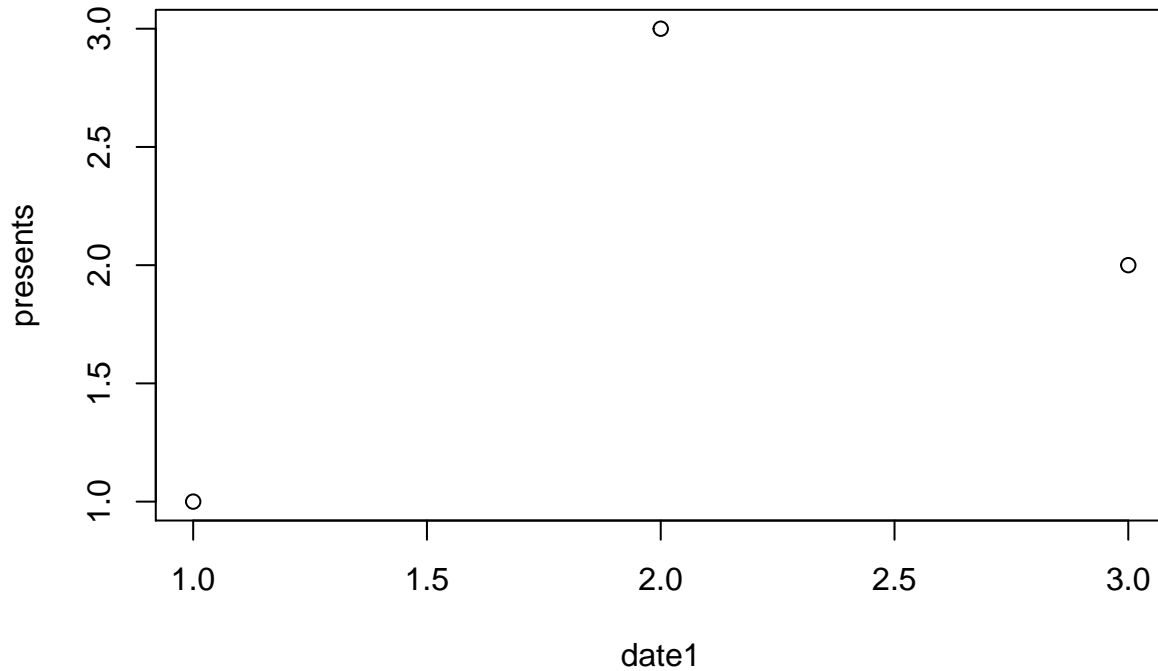
## [1] 7.13291
```

10.2 Dates

```
date1=strptime(c("20170201","20171225","20170216"),format = "%Y%m%d")
d<- data.frame(date1=c("20170201","20171225","20170216"),presents=c("2","3","4"))
```

```
##d<- data.frame(date1,presents=c("2","3","4"))
x<-d$date1
y<-d$presents

plot(x,y,xlab="date1",ylab="presents")
```



#11.2

TODO

```
s=c()
for(i in 1:100)
{if (i<5 | i >90)
{s[i]=i * 10
}else{
s[i]=i*0.1
}
}
s
```

```
## [1] 10.0 20.0 30.0 40.0 0.5 0.6 0.7 0.8 0.9 1.0
## [11] 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0
## [21] 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0
## [31] 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0
## [41] 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0
## [51] 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 6.0
## [61] 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 7.0
## [71] 7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0
## [81] 8.1 8.2 8.3 8.4 8.5 8.6 8.7 8.8 8.9 9.0
## [91] 910.0 920.0 930.0 940.0 950.0 960.0 970.0 980.0 990.0 1000.0
```


11.3 TODO

```
fun1=function(arg1,arg2)
{
  s=c()
  for(i in arg1:arg2)
  {if (i<5 | i >90)
    {s[i]=i * 10
    }else{
    s[i]=i*0.1
    }
  }
  s
}
```

```
fun1(arg1=3,arg2=50)
```

```
##  [1]  NA  NA 30.0 40.0  0.5  0.6  0.7  0.8  0.9  1.0  1.1  1.2  1.3  1.4
## [15]  1.5  1.6  1.7  1.8  1.9  2.0  2.1  2.2  2.3  2.4  2.5  2.6  2.7  2.8
## [29]  2.9  3.0  3.1  3.2  3.3  3.4  3.5  3.6  3.7  3.8  3.9  4.0  4.1  4.2
## [43]  4.3  4.4  4.5  4.6  4.7  4.8  4.9  5.0
```